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CREATES  
A SEVENTH  
GENERATION  
COMPUTATION  
SYSTEM  
**REAC 600**

THE MOST ADVANCED COMPUTATION SYSTEM IN THE WORLD—FOR PRODUCT ANALYSIS AND SYSTEMS SIMULATION CAPABILITY



# Reeves® REAC 600

FEATURING—HYBRID CONFIGURATION • ALL SOLID STATE CONSTRUCTION • ALL ELECTRONIC OPERATION • HIGH SPEED

**for diverse and unlimited application in**

- AEROSPACE • AIRCRAFT • REFINERIES
- CHEMICAL PROCESSING • AUTOMOTIVE • MEDICAL
- RAILROADS • GAS PIPELINE • RESEARCH & OTHER FIELDS

The REAC 600 is a high speed, solid state, large scale computing system. This state-of-the-art system is based around a modern frame and is capable of expansion to the most powerful hybrid facility presently available.

All operating mode controls are electronically buffered so that the equipment can be remotely addressed and, therefore, easily subject to hybrid operation.

Human engineering and appearance, both considered vital in efficient operation of a modern facility, have been given high priority in the design of this equipment. Sloping front panels, centrally located controls, displays at eye level and patch boards that are visible from a seated position make operation of the REAC 600 easy, precise and unwearying.

All components and assemblies are of the highest quality and have been prototype field tested. As an added advantage, the performance specifications are consistent with the claim of highest precision equipment.

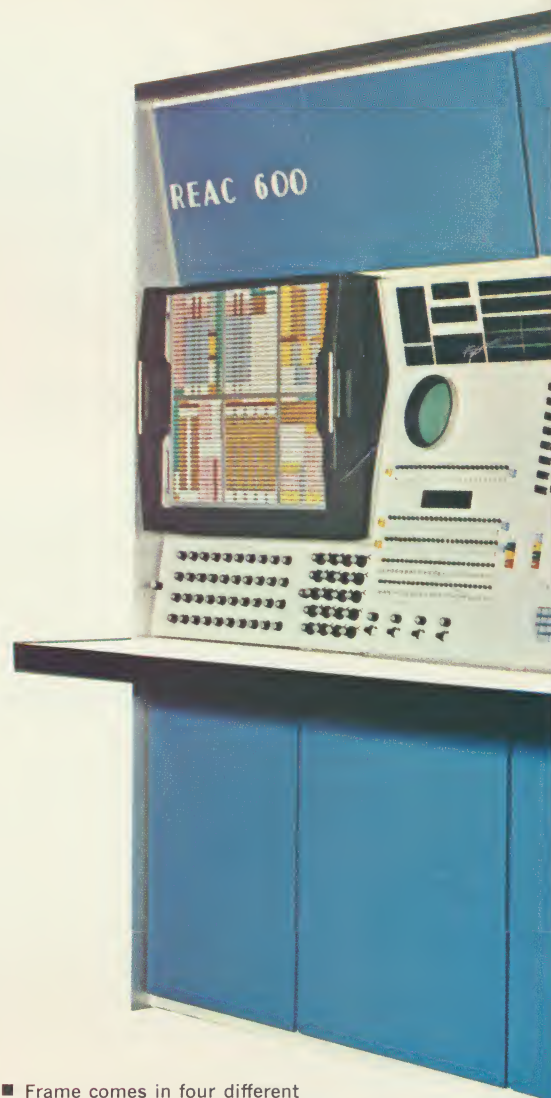
## OPERATIONAL AMPLIFIER SPECIFICATIONS

The REAC 600 operational amplifier is an all solid state system with a solid state chopper. All amplifiers used in the REAC 600 Computation System are completely interchangeable throughout the system.

The operational amplifier features and specifications are as follows:

- Solid-state construction, short-circuit proof.
- Maximum output voltage:  $\pm 120$  volts.
- Maximum output current: 50ma at  $\pm 100$  volts.
- The following measurements are for a 1 Meg/1 Meg amplifier with two gains of 10 grounded as per Simulation Council Standards:
  - Bandwidth: Minimum — 100 KC  
Maximum — 125 KC
  - Phase Shift at 1kc: Best case 0.05°  
Worst case 0.16°
  - Noise within a 30kc band pass 3MV P-P  
Peaking: 1 db maximum.  
Gain Error at 1 kc: 0.5% maximum  
Recovery time from overload:  
1 second typical  
less than 5 microseconds in high speed operation  
Velocity limiting:  $20 \times 10^6$  volts/second  
Gain:  $0.5 \times 10^8$

Amplifiers are stable with any value of output Capacity loading, and for any value of resistance capacitor or diode feedback. All amplifier measurements are made using the Simulation Council's recommended measuring procedure.

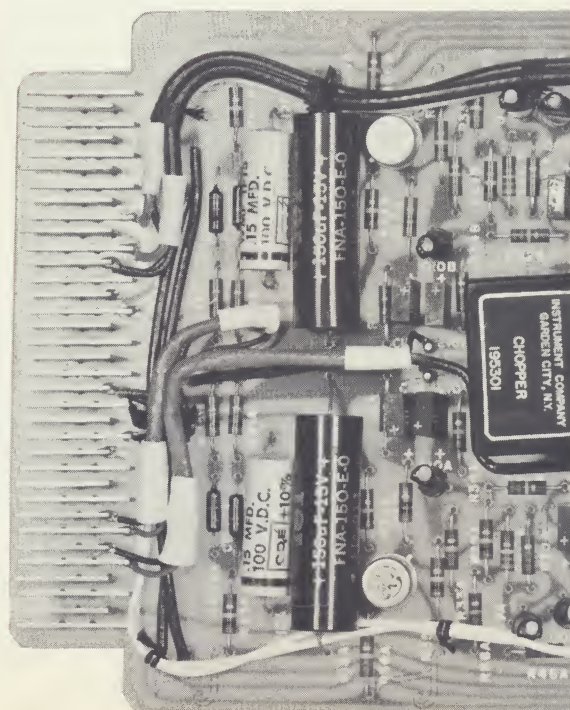


■ Frame comes in four different basic colors. Special colors can be incorporated.

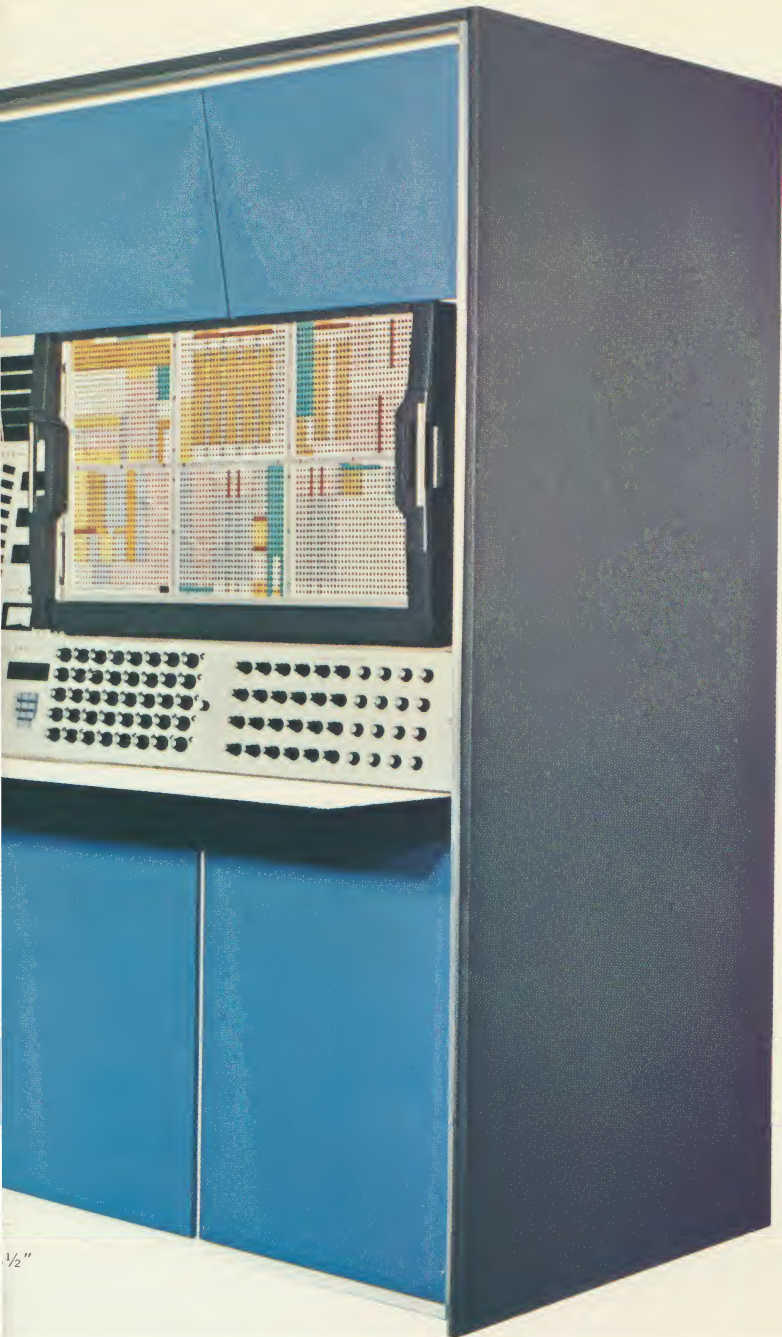
**Power Requirements**—115 VAC, 60 Cycle, single phase, 60 Amps. Total Power Consumption 8 KVA

**Physical Dimensions**—Height: 77½"; Width: 95¼"; Depth: 3

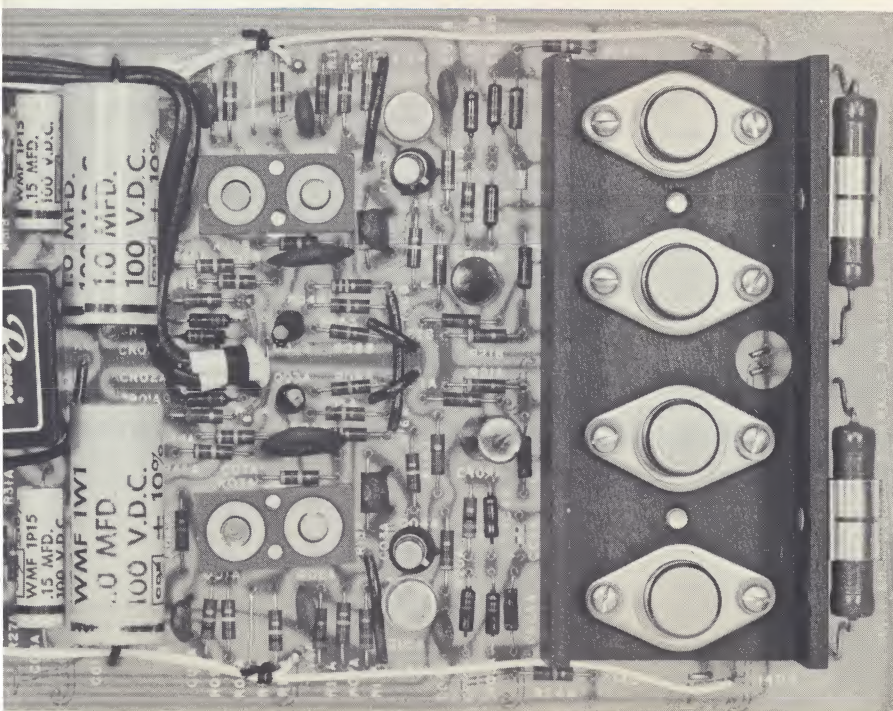
**Environment**—Temperature—55° to 90°F. at 90% Humidity







1/2"



## ANALOG COMPLEMENT

Description	Fully Expanded
<b>REAC Model 600 Analog Computer</b> with workshelf, solid state Operate, Hold and Reset, analog and logic patchboard systems, oven, 5" Oscilloscope, all analog and logic operating controls, all analog and logic externals, interconsole trunks, all power and reference supplies for full expansion, precision voltage divider, time scale system, digital voltmeter, overload system and All Wiring To Complete Expansion As Listed In Column "Fully Expanded" is Included In System	1
<b>Operational Amplifiers</b>	
Integrators—each with electronic mode control and four (4) time scales	60
Summers	60
Track and Store Networks for Summers	60
Inverters	180
Total Amplifiers	300
<b>Attenuators</b>	
Potentiometers	240
<b>Multipliers</b>	
Multipliers	84
<b>Diode Function Generators—</b> Eleven segments	24
<b>Fixed Trigonometric Generators</b>	12
<b>Electronic Resolvers</b>	
Electronic Resolvers	6
<b>Limiters</b>	
Limiters	30
<b>Function Switches</b>	
SP3T	16
<b>Noise Generator</b>	
Dual Range Noise Generator	1
<b>Passive Elements</b>	
Resistors	8
Speed Scale Capacitors	8
<b>Fixed Function Cards</b>	24
<b>Analog Comparators</b>	30
Analog Input Trunks	90
Analog Output Trunks	90
Logic Input Trunks	51
Logic Output Trunks	51
Intra-Console Trunks	18
<b>Pulse Generator Module</b>	1
<b>Control A</b>	1
<b>Control B</b>	3
<b>General Purpose Logic Gates</b>	96
<b>Dual Quad Counter &amp; Shift Register Module</b>	9
<b>Digital Level Generator</b>	1
<b>Power Gates</b>	1
Consisting of—36 Fan-out of 25	
<b>Digital Function Switches</b>	1
Consisting of—	
4 Clocked Switches	
4 Unclocked Switches	

Software is available for Hybrid installation for most of the present day scientific digital computers.



HIGH SPEED  
**REAC 600**

HYBRID  
CONFIGURATION

ALL SOLID  
STATE  
CONSTRUCTION

ALL ELECTRONIC  
OPERATION

### REAC 600—VERSATILE COMPUTATION SYSTEM

The Hybrid Configuration, Solid State REAC 600 has been designed as a multi-purpose Computation System—with unlimited application in Product Analysis and Systems Simulation Capability. Its versatility provides the results for a vast array of requirements. One of those requirements may be yours.

For more information about how REAC 600 can work for you, please contact your nearest Reeves Office:

**Reeves<sup>®</sup>** **INSTRUMENT COMPANY**  
Garden City, New York / Division Dynamics Corporation of America **DCA**

Garden City, New York  
Mr. Dan Bender  
REAC Manager  
East Gate Blvd.  
Phone: 516-746-8100

Washington, D.C.  
1826 Jefferson Place, N.W.  
Phone: 202-338-1741

Encino, California  
16042 Ventura Blvd.  
Suite 204  
Phone: 213-981-0900